

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A43B3/16 A43B3/06 A43B3/24 A43B23/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A43B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 0141, no. 97 (C-0712), 23 April 1990 (1990-04-23) & JP 2 041102 A (ACHILLES CORP; others: 01), 9 February 1990 (1990-02-09) abstract	1
A	US 3 529 368 A (CANFIELD THOMAS F) 22 September 1970 (1970-09-22) column 2, line 3 - line 44; figures 1,2	1
A	US 5 992 057 A (MONTI STEVEN A) 30 November 1999 (1999-11-30) column 3, line 39 - column 4, line 17; figures 4-6	1
A	US 2 427 459 A (WILMA JASTRZOMB) 16 September 1947 (1947-09-16) the whole document	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

9 November 2004

Date of mailing of the international search report

17/11/2004

Name and mailing address of the ISA

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Information on patent family members

International Application No  
PCT/IB2004/002401

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2041102	A	09-02-1990	JP 2621083 B2	18-06-1997
US 3529368	A	22-09-1970	CA 920804 A1	13-02-1973
			CH 513605 A	15-10-1971
US 5992057	A	30-11-1999	NONE	
US 2427459	A	16-09-1947	NONE	